

1<sup>st</sup>

1818

In Inaugural Dissertation on the  
Colchicum autumnale  
With an experimental account in order to  
prove the similarity between it and L'Eau  
Medicinale du <sup>Dr</sup> Huxen.

Submitted to the examination of the  
Provost, Vice Provost, Trustees and Medical  
Faculty of the University of Pennsylvania,

1814

John Y. Clark of New Jersey

Honorary Member of Philadelphia  
Medical Society.

For the Degree of Doctor of Medicine.

"We ought in every instance, to submit  
our reasoning to the test of experiment,  
and never to search for truth but  
by the natural road of experiment  
and observation."

Lavoisier.

Go  
that  
-tation  
comm  
but  
is a  
ment  
of the  
life  
not  
exper  
note  
most  
abili  
theory  
which  
engage  
that  
ology  
atten  
hope  
wively

Gentlemen,

It is with the greatest diffidence that I now offer for your, My Inaugural Dissertation on The Colicium Autumnale.

It cannot be expected that a person should communicate many original ideas who has been but three years in the study, the time of which is a little more than sufficient to acquire the elementary principles of so extensive a science as that of Physic. Persons who have spent the longest life in the most laborious study, and collecting not only all the facts possible from their own experience and observations, but also from an infinite number of volumes, written by men of the most profound learning, professional, and of great abilities, have not been suffered to establish a theory free from objections. Although the subject which I have chosen has not as yet appeared to engage the attention of Physicians, and I hope that its being the product of a juvenile mind will apologize for its imperfections. *scilicet*

I confess I feel a strong desire to direct the attention of Physicians to the subject, with the hope that the Colicium may be tried more extensively as a remedy in the treatment of diseases.

Little  
Book  
in Bay  
field  
containing  
may be  
sold for  
at least  
enable  
to tempo-  
rarily  
catalogue  
position  
schools  
and all  
However  
to the f-  
penetration  
who man-  
"With  
Laid  
For  
Dec  
N. sub



5  
Little has hitherto been done in this respect except by  
Hook, Collin, and Plenk who celebrated its virtues  
in *Hydrothorax* and other dropsies.

A wide extended  
field still remains open, which promises no  
contemptible harvest to the diligent cultivator. It  
may be confidently expected of every agent which  
act powerfully on the living system, that when we  
attain a sufficient knowledge of its properties to  
enable us to apply it with proper discrimination and  
to temper its operations judiciously, that it will  
prove eminently beneficial as a medicine. The whole  
catalogue of our active remedies is illustrative of the  
proposition; and hence in the language of the old  
schools, "All Medicines in large doses are poisons,  
and all poisons in small doses are the best medicines."  
However repugnant this opinion may have been  
to the feeling of Physicians, it was familiar to the  
penetrating eye of the Philosophic Shakespeare,  
who makes Sir Lawrence in his soliloquy exclaim  
"Within the infant rind of this small flower  
Poisons hath residence, and medicine a power;  
For this being small, with that sense cheere apart  
Being tasted, slays all venoms with the heart."  
No substance with which I am acquainted, holds

not a g  
believe  
my enab  
acted as  
intended  
and obse  
imperfec  
the wor  
should  
though  
that an  
of reason  
upon the  
imperfec  
my siva  
how p  
river ac  
investiga  
i heat  
second  
leaves

Loca

out a fairer prospect of being useful than this  
 Solenism. Although I feel deeply sensible of  
 my inability to write an essay free from imperfections  
 yet I consider one purpose for which a Thesis is  
 intended; to show the extent of a candidates reading  
 and observation, and I hope to be excused for any  
 imperfections which it may contain. Recollecting  
 the words of an Ancient Author who says, "we  
 should set a double value on our present knowledge  
 though it be imperfect and restrain the rude hands  
 that are ever ready to pluck up the tender plants  
 of science, because they do not bear fruit at a season  
 when they can only be putting forth their blossoms  
 impressed with the generosity of those ideas. I submit  
 my essay to the candid investigations of the Philosophers  
 whose patronage stamps the merit of every youthful  
 gives activity to the mind, and excites to future  
 investigations.

I shall proceed in the first place  
 to treat of the History, Properties, & Preparations,  
 Secondly and lastly, of its effects in the cure of  
 diseases.

Wash  
calya  
thing  
conne  
40 pec  
tum  
P. Van  
Lovan  
The  
be the

The  
count  
coal  
was on  
what  
lost  
"by"

hence

## Botanical History

### *Colchicum*. Meadow Saffron.

Class Hexandria; Order Trigenia; Flower inferior.  
calyx a spatha - corolla 6 parted with its tube  
springing from the root. Capsule 3 celled the cells  
connected inflated. Of this genus there are but  
4 species yet recognised by Botanists viz 1<sup>st</sup> Au-  
tumnale; 2<sup>d</sup> Montanum of Spain & Switzerland;  
3<sup>d</sup> Variegatum - Isle of Chio; 4<sup>th</sup> Byzantium - the  
Levant. All of these species are perrenial.

The first of these species viz; the Autumnale will  
be the subject of this Dissertation.

### *Colchicum Autumnale*

The root is a perrenial, consisting of a solid double  
succulent bulb, covered with a brown membranous  
coat, the flower is large of a purplish colour, and  
rises immediately from the tubex resembling some-  
what the common saffron. Darwin the celebrated  
poet has elegantly described it in the following words  
viz. "Three blushing maids, the intrepid Myrrha attend,

And via gay youths, the enamoured train; depend.  
To shew with silver guards, the Georgian star,

hence its name Nakehead lady

Botanical Notes

*[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]*

The  
the  
The le  
canical  
power  
monoph  
sect or  
wa ob  
than  
pointe  
at the  
all hand  
had str  
into the  
color  
spring  
a strong  
part of  
It is the  
of efflu  
phian  
old bu  
to the fo  
the old  
a footman

And drives on bright blue arch his glittering car,  
Wings in the billowy clouds his lucid form.

Moves through the mist and dances in the storm.  
The leaves appear in the spring, and are numerous  
radical, spear shaped, two of the leaves much nar-  
rower than the other, there is no calyx, the corolla is  
monopetalous, and divided into six lance shaped large  
erect segments, of a pale purple colour; there are  
six white tapering filaments, something shorter  
than the corolla and are furnished with erect  
pointed yellow antherae, the germen is lodged  
at the root, from which issue three slender styles,  
reflexed at the top, and terminating by simple point-  
ed stigmata, the capsule is three lobed, divided  
into three cells, containing numerous small glob-  
ular seeds which do not ripen untill the succeeding  
spring when the capsule rises above the ground upon  
a strong peduncle. It is a native of the temperate  
parts of Europe generally growing in wet meadows.  
It is likewise cultivated at the Botanical garden  
of Mr. Parker situated one mile from Philadel-  
phia. It flowers in September at which time the  
old bulb decays, and a new bulb begins to be formed.  
In the following May the new bulb is perfected, and  
the old one is wasted & corrugated.

They may  
for the

After peeling  
from their  
condition  
place of  
restroom  
It is high  
with some  
houses to  
house.  
their lat  
division  
is a very

There are  
the Colch  
dyspepsia  
called Sol  
prophesies  
is on the  
have hall

side



They must be dug in the beginning of summer for medicinal purposes.

## Properties

After peeling off the cortex of the root it has a very fine shining white appearance. as for its sensible qualities it varies very much, according to the place of growth or season of the year. In autumn it is inert, in the beginning of summer it is highly acid. By some it has been eaten with impunity, whilst with others it has proven to be very deleterious, acting as a corrosive poison. This last effect is owing I presume to their taking it in too large a quantity. Best given in moderate quantities, it acts certainly as a very mild and pleasant medicine.

## Preparations

There are four different modes of preparing the Colchicum. By Lind, The balsam. Secondly Syrup, third, saturated tincture, fourth, saturated solution. I shall pass by the modes of preparing the two first preparations, and shall go on to give the manner of preparing the two latter, which I consider far superior to

\*Bide-Loais dispensatory

the other  
fish  
hairs of  
two or  
secondly  
and to  
then any  
surfs the  
surfs. I  
with this  
slippery to  
we very

reclaiming  
inclusion  
I have m  
hope the  
the most

have  
yellow  
hundred  
beating  
In 1851

the others in point of efficacy. Take of the fresh root sliced one part, and add to it two parts of Madeira, or Lisbon wine, saturate it for two or three days, and filter through paper. Secondly, Take one part of the sliced root, and add to it two parts of water, let it stand two or three days & filter through paper. Of this last recipe the average dose is about two hundred drops. I have made a number of experiments with this Watery solution which I deem unnecessary to insert as the following experiments are very analogous to them.

During the trials With the view of ascertaining the analogy between the Colchicum autumnale, and Le Eau Medicinale du Kufson; I have made the following experiments and I hope that it will appear conclusive to the most superficial observer.

### Experiment 1<sup>st</sup>

June 10<sup>th</sup> At 12 O'clock A.M. My Friend and fellow student M<sup>r</sup>. John R. Peckworth took one hundred drops of the Tincture Colchici his pulse beating Eighty strokes in a minute—  
In 15 minutes his pulse beat 78 strokes per min.

July 15/55  
July 16/55

minutes of  
some cons  
discovery  
how disc  
such ince  
visibly, fu  
no menta  
very slow a  
some he  
and soft  
very pecc  
and in  
table was

June 18/55  
had drop  
hypoxia  
table bea  
for tense  
at the t  
follows

min	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
beat	78	76	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32	30	28	26	24	22

In five minutes after taking the medicine his pulse became considerably reduced both in force and frequency; in thirty five minutes he had a copious discharge of pale coloured urine, his pulse much increased; in fifty minutes he became very sleepy, pulse again reduced; in seventy minutes his mental faculties became much exalted, pulse very slow and soft; in eighty minutes he complained of some heaviness, and vertigo, pulse continued slow and soft; in ninety minutes perfectly free from any peculiar feelings, pulse somewhat increased; and in one hundred and eighty minutes his pulse was perfectly natural.

### Experiment 2<sup>d</sup>.

June 10<sup>th</sup> at 12 o'clock A.M. I took one hundred drops of the French Le Eau Medicinale de Hopson which was imported from Europe. My pulse beating eighty four strokes in a minute, as for tension and volume quite natural, being at the time in perfect health. My friend and fellow student Mr. E. Craven attending to the pulse.

July 3rd

July 4th

July 5th

July 6th

July 7th

July 8th

July 9th

July 10th

July 11th

July 12th

July 13th

July 14th

July 15th

July 16th

July 17th

July 18th

July 19th

July 20th

July 21st

July 22nd

July 23rd

July 24th

July 25th

July 26th

July 27th

July 28th

July 29th

July 30th

August 1st

August 2nd

August 3rd

August 4th

In 3 minutes it beat 67 strokes in a minutes

min. 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130

beat 67 66 66 76 76 76 76 76 68 68 68 76 76 76 76 76 76 76 76 76 76 76 76 76 76

In five minutes after taking the medicine my pulse became diminished in force and frequency; in forty minutes my mental faculties became much exalted and my pulse a little fuller; in fifty minutes there was some difficulty to keep from going to sleep; my pulse still diminished; in eighty minutes free from sleepiness, with a little vertigo; my pulse still slow; in one hundred minutes perfectly free from any peculiar feelings, pulse still some diminished; and in one hundred and twenty minutes my pulse somewhat increased; followed by a copious discharge of urine; and in one hundred and eighty minutes, my pulse arrived at its natural standard.

### Experiment 3<sup>d</sup>.

July 27<sup>th</sup> at 10 O'clock A.M. I took one hundred drops of the Tinctura Colchici, my pulse beating 70 strokes in a minute, as for tenness and volun somewhat diminished, having had for some time past a sense of

La 5. mis

100 10 10 10 10

Medicine

in force

felt corn

face and

inserted

in Italy.

17/11/1911

notes on

July 2

17  
18

May 12







my friend and fellow student Mr. Jno. W.  
Glenister attending to it.

In 5 minutes it beat 66 strokes per min:

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

In five minutes after  
taking the medicine I felt a sense of heat and  
weight about the pectoris and my pulse became  
much reduced; in thirty minutes I felt as though  
I had taken too large a quantity of wine I be-  
came very much exhilarated which was the  
most pleasing sensation I ever witnessed, my  
pulse was a little increased, full and soft,  
in sixty minutes, I felt a very great inclination  
for sleep, my pulse much reduced, soft and  
weak; in one hundred and fifteen minutes my  
inclination for sleep subsided followed by a  
slight diaphoresis; and in one hundred and  
twenty minutes was followed by a profuse dis-  
charge of transparent colourless urine, my pulse  
a little increased; and in two hundred and  
seventy minutes, I had a watery discharge of feces.

accomplish  
like a

July 30th  
July 31st  
The Time  
twenty six  
to 5 minutes

1771 1772 1773 1774 1775 1776

1777 1778 1779 1780 1781 1782

King the  
piece as  
only move  
the, and

moving as  
a piece

ward. &  
the next  
the piece  
is a diagonal

unaccompanied with tenderness or griping, my  
pulse at its natural standard.

Experiment 5<sup>th</sup>

July 30<sup>th</sup>. At 10 o'clock A.M. An Amiable  
Lady 44<sup>½</sup> R. took two hundred drops  
of the Simulana Colchici her pulse beating  
seventy nine strokes in a minute.  
In 5 minutes it beat 74 strokes per min.

January	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150		
Feb.	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150

Min. 160 155 150 145 140 135 130 125 120 115  
 Sec. 70 80 90 100 110 120 130 140 150 160  
 165 170 175 180 185 190 195 200 205 210  
 215 220 225 230 235 240 245 250 255 260  
 265 270 275 280 285 290 295 300 305 310  
 315 320 325 330 335 340 345 350 355 360  
 365 370 375 380 385 390 395 400 405 410  
 415 420 425 430 435 440 445 450 455 460  
 465 470 475 480 485 490 495 500 505 510  
 515 520 525 530 535 540 545 550 555 560  
 565 570 575 580 585 590 595 600 605 610  
 615 620 625 630 635 640 645 650 655 660  
 665 670 675 680 685 690 695 700 705 710  
 715 720 725 730 735 740 745 750 755 760  
 765 770 775 780 785 790 795 800 805 810  
 815 820 825 830 835 840 845 850 855 860  
 865 870 875 880 885 890 895 900 905 910  
 915 920 925 930 935 940 945 950 955 960  
 965 970 975 980 985 990 995 1000 1005 1010  
 1015 1020 1025 1030 1035 1040 1045 1050 1055 1060  
 1065 1070 1075 1080 1085 1090 1095 1100 1105 1110  
 1115 1120 1125 1130 1135 1140 1145 1150 1155 1160  
 1165 1170 1175 1180 1185 1190 1195 1200 1205 1210  
 1215 1220 1225 1230 1235 1240 1245 1250 1255 1260  
 1265 1270 1275 1280 1285 1290 1295 1300 1305 1310  
 1315 1320 1325 1330 1335 1340 1345 1350 1355 1360  
 1365 1370 1375 1380 1385 1390 1395 1400 1405 1410  
 1415 1420 1425 1430 1435 1440 1445 1450 1455 1460  
 1465 1470 1475 1480 1485 1490 1495 1500 1505 1510  
 1515 1520 1525 1530 1535 1540 1545 1550 1555 1560  
 1565 1570 1575 1580 1585 1590 1595 1600 1605 1610  
 1615 1620 1625 1630 1635 1640 1645 1650 1655 1660  
 1665 1670 1675 1680 1685 1690 1695 1700 1705 1710  
 1715 1720 1725 1730 1735 1740 1745 1750 1755 1760  
 1765 1770 1775 1780 1785 1790 1795 1800 1805 1810  
 1815 1820 1825 1830 1835 1840 1845 1850 1855 1860  
 1865 1870 1875 1880 1885 1890 1895 1900 1905 1910  
 1915 1920 1925 1930 1935 1940 1945 1950 1955 1960  
 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010  
 2015 2020 2025 2030 2035 2040 2045 2050 2055 2060  
 2065 2070 2075 2080 2085 2090 2095 2100 2105 2110  
 2115 2120 2125 2130 2135 2140 2145 2150 2155 2160  
 2165 2170 2175 2180 2185 2190 2195 2200 2205 2210  
 2215 2220 2225 2230 2235 2240 2245 2250 2255 2260  
 2265 2270 2275 2280 2285 2290 2295 2300 2305 2310  
 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360  
 2365 2370 2375 2380 2385 2390 2395 2400 2405 2410  
 2415 2420 2425 2430 2435 2440 2445 2450 2455 2460  
 2465 2470 2475 2480 2485 2490 2495 2500 2505 2510  
 2515 2520 2525 2530 2535 2540 2545 2550 2555 2560  
 2565 2570 2575 2580 2585 2590 2595 2600 2605 2610  
 2615 2620 2625 2630 2635 2640 2645 2650 2655 2660  
 2665 2670 2675 2680 2685 2690 2695 2700 2705 2710  
 2715 2720 2725 2730 2735 2740 2745 2750 2755 2760  
 2765 2770 2775 2780 2785 2790 2795 2800 2805 2810  
 2815 2820 2825 2830 2835 2840 2845 2850 2855 2860  
 2865 2870 2875 2880 2885 2890 2895 2900 2905 2910  
 2915 2920 2925 2930 2935 2940 2945 2950 2955 2960  
 2965 2970 2975 2980 2985 2990 2995 3000 3005 3010  
 3015 3020 3025 3030 3035 3040 3045 3050 3055 3060  
 3065 3070 3075 3080 3085 3090 3095 3100 3105 3110  
 3115 3120 3125 3130 3135 3140 3145 3150 3155 3160  
 3165 3170 3175 3180 3185 3190 3195 3200 3205 3210  
 3215 3220 3225 3230 3235 3240 3245 3250 3255 3260  
 3265 3270 3275 3280 3285 3290 3295 3300 3305 3310  
 3315 3320 3325 3330 3335 3340 3345 3350 3355 3360  
 3365 3370 3375 3380 3385 3390 3395 3400 3405 3410  
 3415 3420 3425 3430 3435 3440 3445 3450 3455 3460  
 3465 3470 3475 3480 3485 3490 3495 3500 3505 3510  
 3515 3520 3525 3530 3535 3540 3545 3550 3555 3560  
 3565 3570 3575 3580 3585 3590 3595 3600 3605 3610  
 3615 3620 3625 3630 3635 3640 3645 3650 3655 3660  
 3665 3670 3675 3680 3685 3690 3695 3700 3705 3710  
 3715 3720 3725 3730 3735 3740 3745 3750 3755 3760  
 3765 3770 3775 3780 3785 3790 3795 3800 3805 3810  
 3815 3820 3825 3830 3835 3840 3845 3850 3855 3860  
 3865 3870 3875 3880 3885 3890 3895 3900 3905 3910  
 3915 3920 3925 3930 3935 3940 3945 3950 3955 3960  
 3965 3970 3975 3980 3985 3990 3995 4000

...with the ...

...the ...

...the ...

...the ...

...the ...

...the ...

...the ...

...the ...

with h

August  
hundred  
my pulse  
etc. & by  
longer  
the same

... 0 9 17 17

... 0 9 17 17

the med  
the pit of  
well de  
is in the  
minutes  
calitate  
roughly m  
hundred  
trees; as  
discharge

... Process

with her constitution.

### Experiment 4th.

August 14<sup>th</sup> at 12 O'clock A.M. I took two hundred drops of Le Eau Medicinale du <sup>Dr</sup> Hoffmann my pulse beating seventy eight strokes in a minute; My Friend and fellow student A. J. W. Gloniger attending to it. In 5 minutes it beat 62 strokes per min.

min.	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
sec.	15	27	37	47	57	67	77	87	97	107	117	127	137	147	157	167	177	187	197	207	217	227	237	247	257	267	277	287

min.	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

In five minutes after taking the medicine, I felt a peculiar sensation about the pit of my stomach which words cannot well define, my pulse became much reduced as in the preceding experiments, in forty minutes my mental faculties became much exhilarated my pulse full and soft, in eighty minutes I became very sleepy, in one hundred minutes a slight diaphoresis was produced, in one hundred and eighty minutes, I discharged a large quantity of pale colour.

\* Recured from Europe

voice,  
 eye of  
 mirror  
 place  
 my pen

Aug 10  
Mr.  
P. G.  
in sec  
pat in  
In 5.

1000 1000 1000

[illegible]



urine, which was followed by a profuse discharge of watery faeces; and in two hundred minutes a second discharge of faeces took place but more natural than the first, my pulse at this time natural.

### Experiment 7<sup>th</sup>

August 3<sup>rd</sup> at 2 o'clock P.M. My Friend Mr. J. S. took two hundred drops of L'Eau Medicinale du "Ruppon" his pulse beat in seventy strokes in a minute, perfectly natural as to frequency and force. In 5 minutes it beat 50 strokes per min.

min	11	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Beats	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58

min	155	160	165	170	175	180	185	190	195	200
Beats	60	60	60	60	60	60	60	60	60	60

In five minutes after taken the medicine he complained of some oppression about the chest, his pulse much diminished in force and frequency; in fifteen minutes he complained of some dizziness (to use his own words) as though something was dizzying before his eyes,

in one he  
separately  
gradually  
the body  
has a c  
and in  
he pulse

August  
Aug. 6. 4  
Le Can  
ing eighty  
dth and  
An 5. 11. 11

Aug 11	11. 11. 11
Aug 12	11. 11. 11

Aug 13	11. 11. 11
Aug 14	11. 11. 11

looking to  
school as  
one has  
yes a la

in one hundred and fifty minutes a slight perspiration broke out on his forehead and gradually extended over the whole surface of the body; and in two hundred minutes he had a copious discharge of watery faeces; and in two hundred and twenty minutes his pulse became natural.

### Experiment 8<sup>th</sup>

August 24<sup>th</sup> at 3 o'clock P.M. My Brother Mr. J. G. C. took two hundred drops of Le Can's Medicine dr. Tupper, his pulse beating eighty one strokes in a minute, as for force soft and volume quite natural. In 5 minutes it beat 60 strokes per min.

Min.	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Beats	60	58	65	63	63	60	60	60	58	58	55	55	59	62	62	65	65	65	67	60	60	65	65	65	65	65	65	70

Min.	155	160	165	170	175	180	185	190
Beats	71	71	71	71	74	74	74	74

In five minutes after taking the medicine, his pulse became diminished as in the preceding experiments; in one hundred and eighty minutes he discharged a large quantity of pale coloured urine.

flowers  
leaves  
the second  
hoped  
you mind  
Hanson

it is per  
hendite  
your p  
already  
turnable  
Hidion

in the m  
of the l  
one of  
cases in  
eating  
disease  
of the

followed by a copious discharge of watery  
faeces, in two hundred and twenty minutes  
a second discharge of watery faeces was  
passed, and in two hundred and twenty  
five minutes, his pulse rose to its natural  
standard.

A further detail of experiments  
it is presumed would be an unnecessary ex-  
penditure of time and an intrusion on  
your patience. I trust enough has been said  
already to prove that the *Colchicum Autum-  
nale* is the chief ingredient of *Le Eau  
Medicinale du Japon*.

I shall proceed  
in the next place to speak of the efficacy  
of the *Colchicum Autumnale*, in the  
cure of Gout, and also mention a few  
cases in which it has succeeded in radi-  
cating that insupportable and painfull  
disease which has so long been the destroy-  
er of the human race.

The  
support  
number to  
the party  
on some  
The  
embattling  
by cleane  
in this  
out in  
parade  
secondly  
thirdly  
from the  
a good  
servants  
believe to  
use. The  
follows  
labouring  
to bad the  
after taking  
the party

### Of its effects in Gout

This disease I believe, as the worthy Professor has supposed to consist of a painfull affection of the muscles, tendons &c, originating in the stomach though the parts at which it makes its appearance are remote from this organ.

The indication for a cure consists, therefore in combatting urgent symptoms which must be done by cleansing well the Alimentary canal. It is in this way that I conceive the Colchicum to act in eradicating this disease viz; 1<sup>st</sup>. By its spastic and powerfull Purgative qualities. Secondly, By its Diuretic, and Diaphoretic properties. Thirdly, and lastly, By an operation *vis generis*.

From the numerous and repeated of the Colchicum in Gout my worthy Preceptor John Syng Desaguliers warrants me in stating that it has proven in his practice to be a remedy univalled, in this disease. The manner in which he gave it is as follows; viz; he gave to the Patients who were labouring under a paroxysm of Gout, on going to bed five hundred drops, of the medicine; soon after taking it the narcotic property relieved the pain and the Patients fell to sleep; in

in the  
black  
they call  
and cons  
measure  
it as th  
of a hap  
very so  
in Patie  
compatio  
the stran

and Pa  
successor

Every M  
in calcul  
that sub  
the good  
every  
inflation



in the morning they were purged very sleepy of a black feculent coloured matter. and at the time they experienced much gastric distress, and perspired considerably; the disease having in a great measure subsided; sometimes completely disappeared as though it had been touched by the wand of a Magician. Sometimes he found it necessary to repeat the dose, and in 36 or 43 hours his Patients were able to follow their usual occupation without the least symptoms of the disease.

In the hands of Doctors, Thyrisk, and Parish it seems to have been no less successfull.

### Of its effects in Calculi

Query: What would be the effects of Colchicum in Calculous affections? Seeing the great analogy that subsists between the calculous disease and the Gout; and knowing that Gouty Patients are very likely to be afflicted with calculous affections in advanced life.

From the  
of the Tini  
missions cal  
drop of  
to make tea

Blackwom  
as for assi  
they, I saw  
Chickie in  
shows de  
flowered w  
the medici  
of the med  
her drop  
leaved an  
to do but  
one to rec  
in the spe  
first occas  
of seeing  
Annual Stat

### Of its effects in Dropsy.

From the Diuretic and Cathartic properties of the Tinct. Colchici, it would seem a pison, a medicine extremely well adapted to many cases of Dropsy; from the above supposition I was induced to make trial of it in the following case.

September 15<sup>th</sup> 1817 A.M.

Blackwoman, aged thirty two years, consulted me for ascites, and anasarca of the lower extremities. I gave her two hundred drops of the Tinct. Colchici in the morning which produced a very copious discharge of urine and watery faeces; pleased with the success of this operation of the medicine, I was led to continue the use of the medicine for nine days in which time her dropsical swelling had completely disappeared and nothing was then left for me to do but to prescribe a little Tonic medicine to restore the tone of the system; and in the space of nineteen days from my first seeing her, I had the satisfaction of seeing her completely restored to her usual state of health.

Before I close these

Two and  
work of  
Gentle  
for your  
has you  
edges from  
Linden  
Honey co  
she who  
teacher.  
given to  
the comm  
lon of a  
university  
to contain  
believe to  
wonder go  
much.

few and crude remarks which is not the  
 work of choice but necessity, permit me,  
 Gentlemen, to return you my grateful thanks  
 for your polite attention, and the opportuni-  
 ties you have afforded me in acquiring knowl-  
 edge from your Medical lectures whilst  
 a Student of this University. But for Doctor  
 Gossay in particular I feel other regards than  
 those which are due him merely as a public  
 Teacher. His attention and instructions  
 given to me whilst his private pupil will  
 ever command my most grateful recollec-  
 tion of him. That you the Professors of the  
 University of Pennsylvania may long live  
 to continue to afford instruction to others, to  
 relieve the unfortunate and receive the re-  
 wards you so justly deserve is my sincere  
 wish.

J. 4. 6